

## **DEPARTMENT OF COMMUNITY SERVICES & DEVELOPMENT TRAINING CENTER CURRICULUM OVERVIEW**

### **Basis Weatherization Training Agenda Overview 5-Day Course**

The goal of CSD Basic Weatherization Training is to provide a working knowledge of: (a) basic construction terminology, (b) primary weatherization measures, (c) recommended installation procedures and techniques, (d) lead-safe weatherization practices, and (e) general workplace safety practices.

- Introduction to Weatherization
- Construction Nomenclature
- Heat Transfer Basics
- Lead-Safe Weatherization Practices
- Assessment/Attic Ventilation
- Insulation Fundamentals
- Ceiling, Wall, and Floor Insulation
- Caulking and Sealing Fundamentals
- Weatherstripping
- Glazing for Windows and Doors
- Evaporative Cooler & A/C Vent Covers
- Water Heater and Water Heater Pipe Insulation
- Energy-Saver Showerheads and Faucet Aerators
- Microwave Ovens
- Shade Screens
- Thread-Based CFLs and Torchiere Lamps
- CO Alarms
- Safety Practices

### **Combustion Appliance Safety (CAS) Inspection Training Agenda Overview 4-Day Course (ETC); 5-Day Course (CAPSBC)**

This course is designed to provide participants with an in-depth view of CAS Inspections and Testing, including identification of hazardous conditions and required repairs. Students will develop the skills needed to properly conduct CAS Inspections and Testing on residential combustion appliances, including the ability to evaluate appliances encountered for the first time.

- The "House as a System"
- Gas Combustion Basics
- Allowable Exposure Limits of Carbon Monoxide
- Gas Leaks and How to Detect Them
- What Combustion Appliances Need for Proper Combustion and Safe Operation
- Types of Combustion Appliances
- Identification of Major Components of Combustion Appliances
- How Gas Appliances Operate

- How Combustion Appliances Are Tested
- How to Set Up a Home for CAS Testing
- Combustion Appliances Zone (CAZ) Testing
- CAS Evaluations Based on the California Mechanical Code (CMC)
- Visual Inspections for Abnormalities

### **Duct Blaster & Blower Door Diagnostics Training Agenda Overview 3-Day Course (ETC); 5-Day Course (CAPSBC)**

Upon successful completion of this course, students will have a working knowledge of CSD Weatherization Program criteria applicable to Duct Testing and Sealing and Shell Testing and Sealing, as set forth in CSD WIS and P&P documents.

- “Whole House” Retrofit Weatherization
- Appliance Testing in “Whole House” Weatherization
- Duct Systems & Duct Leakage Theory
- The Shell & Shell Leakage Theory
- Duct & Shell Testing
- Using the Duct Blaster & Blower Door Data Sheet
- Duct Repair & Sealing
- Duct Testing with a Duct Blaster
- Shell Diagnostics & Sealing using a Blower Door
- Worker & Occupant Safety

### **Minor Home Repair Training Agenda Overview 5-Day Course (ETC only)**

This course is designed to provide students with the skills necessary to install/preserve weatherization materials or to stop infiltration and general heat waste.

- Introduction to Minor Home Repair
- Introduction to Codes and Standards
- Construction Nomenclature
- Construction Safety & Hand Tools
- Power Tools & Safety Review
- Asbestos & Lead
- Door Repair & Replacement
- Introduction to Windows
- Window Assessment, Repair & Replacement
- Vent Installation
- Minor Wall Repair
- Lead-Safe Minor Home Repair

*Note: The length of the courses is at the discretion of each training center, however, the curriculum and training materials are the same at both centers.*